

What Is Claimed Is:

1. An electrophotographic apparatus having a resolution of at least 1200 dpi that comprises a cylindrical electrophotographic photoreceptor having a charge generation layer and a charge transport layer, and electrophotographic processing components disposed in the vicinity of a peripheral surface of said photoreceptor, the apparatus forming images by operation of the processing components while rotating said photoreceptor;

wherein following relationships (1) and (2) hold among the peripheral speed V in mm/sec of said photoreceptor, the contact angle A in degrees of the surface of said photoreceptor to pure water, and the thickness T in μm of said charge transport layer of said photoreceptor.

$$V^{0.1} \times A \times T^{0.2} < 270 \quad (1)$$

$$T > 25 \quad (2).$$

2. The cylindrical electrophotographic photoreceptor for use as part of a electrophotographic apparatus, the apparatus having a resolution of at least 1200 dpi, the apparatus further including electrophotographic processing components disposed in the vicinity of a peripheral surface of the photoreceptor, the apparatus forming images by operation of the processing components while rotating said photoreceptor, the photoreceptor including

a charge generation layer, and

a charge transport layer,

wherein the following relationships (1) and (2) hold among the peripheral speed V in mm/sec of the photoreceptor, the contact angle A in degrees of the surface of said photoreceptor to pure water, and the thickness T in μm of said charge transport layer of said photoreceptor:

$$V^{0.1} \times A \times T^{0.2} < 270 \quad (1)$$

$$T > 25 \quad (2)$$

whereby images of high resolution can be obtained with high printing wear resistance even if the photoreceptor has a charge transport layer thickness exceeding 25 μm .